TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION Effective January 1, 2011
WIN-358 Revised July 1, 2011

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **November 2013**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Series 10/20/25 Vinyl Fixed Windows, New and Replacement Construction, Non-Impact Resistant, manufactured by

Pella Corporation
Vinyl Window & Door Division
2000 Proline Place
Gettysburg, PA 17325
Telephone: (717) 334-0099

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The Series 10/20/25 windows specified in this evaluation report are vinyl fixed frame windows. This evaluation report includes individual, non-impact resistant vinyl fixed frame windows. This evaluation report includes vinyl fixed frame windows based on the following tested configurations:

General Description:

System	Description	Label Rating
1	Series 10 Vinyl Fixed Frame Windows; New Construction; (O)	F-C50 60 x 60 FW-C50 60 x 60
2	Series 20 Vinyl Fixed Frame Windows; Replacement Construction; (O)	F-C50 60 x 60 FW-C50 60 x 60
3	Series 25 Vinyl Fixed Frame Windows; New Construction; (O)	F-C50 60 x 60 FW-C50 60 x 60
4	Series 20 Vinyl Fixed Frame Windows; Replacement Construction; (O)	F-C50 72 x 72 FW-C50 72 x 72
5	Series 10 Vinyl Fixed Frame Windows; New Construction; (O)	F-C25 108 x 64 FW-C25 108 x 64
6	Series 20 Vinyl Fixed Frame Windows; Replacement Construction; (O)	F-C25 108 x 64 FW-C25 108 x 64

General Description (continued):

System	Description	Label Rating
7	Series 25 Vinyl Fixed Frame Windows; New Construction; (O)	F-C25 108 x 64 FW-C25 108 x 64
8	Series 10 Vinyl Fixed Frame Windows; New Construction; (O)	F-C25 90 x 76 FW-C25 90 x 76
9	Series 20 Vinyl Fixed Frame Windows; Replacement Construction; (O)	F-C25 90 x 76 FW-C25 90 x 76
10	Series 25 Vinyl Fixed Frame Windows; New Construction; (O)	F-C25 90 x 76 FW-C25 90 x 76

Product Dimensions:

System	Overall Size
1	60” x 60”
2	60” x 60”
3	60” x 60”
4	72” x 72”
5	108” x 64”
6	108” x 64”
7	108” x 64”
8	90” x 76”
9	90” x 76”
10	90” x 76”

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1	IG-1	GM-1
2	IG-1	GM-1
3	IG-1	GM-1
4	IG-2	GM-1
5	IG-3	GM-1
6	IG-3	GM-1
7	IG-3	GM-1
8	IG-3	GM-1
9	IG-3	GM-1
10	IG-3	GM-1

Note: [1] See the “Glass Construction Key” for the glazing construction.

[2] See the “Glazing Method Key” for the glazing method description.

Glass Construction Key:

IG-1: The window contains a sealed insulating glass unit. The insulating glass unit is comprised of two $\frac{5}{32}$” annealed glass lites separated by a metal reinforced butyl spacer system. The glass thickness, type, and construction used in the tested assembly and in smaller assemblies shall conform to ASTM E 1304.

IG-2: The window contains a sealed insulating glass unit. The insulating glass unit is comprised of two $\frac{3}{16}$” annealed glass lites separated by a metal reinforced butyl spacer system. The glass thickness, type, and construction used in the tested assembly and in smaller assemblies shall conform to ASTM E 1304.

Glass Construction Key (continued):

IG-3: The window contains a sealed insulating glass unit. The insulating glass unit is comprised of two ¼" annealed glass lites separated by a metal reinforced butyl spacer system. The glass thickness, type, and construction used in the tested assembly and in smaller assemblies shall conform to ASTM E 1304.

Glazing Method Key:

GM-1: The insulating glass unit is exterior glazed against acrylic glazing tape. The insulating glass unit is secured in place with vinyl snap-in glazing beads.

Frame Construction: The frame members are constructed of extruded vinyl (PVC). The frame corners are mitered and welded.

Reinforcement: None.

Hardware: None.

Product Identification:

Systems 1, 5 and 8: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name; the name of the product: **10 Basic New Construction, Fixed Frame, One Wide**; performance characteristics; and approved inspection agency to indicate compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05.

Systems 2, 4, 6 and 9: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name; the name of the product: **20 Replacement, Fixed Frame/Special Shape, One Wide**; performance characteristics; and approved inspection agency to indicate compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05.

Systems 3, 7 and 10: A certification program label (WDMA) will be affixed to the window. The certification program label includes the manufacturer's name; the name of the product: **25 Premium New Construction, Fixed Frame/Special Shape, One Wide**; performance characteristics; and approved inspection agency to indicate compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	60	60	± 50
2	60	60	± 50
3	60	60	± 50
4	72	72	± 50
5	108	64	± 25
6	108	64	± 25
7	108	64	± 25
8	90	76	± 25
9	90	76	± 25
10	90	76	± 25

Impact Resistance: These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris is required.

Acceptance of Smaller Assemblies: Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

INSTALLATION INSTRUCTIONS

General: The window assembly shall be installed in accordance with the manufacturer's installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation:

Systems 1, 3, 5, 7, 8, and 10: The wood wall framing members shall be minimum Southern Yellow Pine dimension lumber. The windows shall be mounted to the wood wall framing members using the nailing fin of the window with minimum 11 gauge smooth shank roofing nails. The fasteners shall be spaced approximately 4 inches from each corner and approximately 10 inches on center along the head, sill, and side jambs of the window. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood wall framing.

Systems 2, 4, 6, and 9: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be mounted to the wood wall framing members using the window frame with minimum No. 10 screws. The fasteners shall be located approximately 6 inches from each end and approximately 18 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood wall framing.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.